BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Electrical Division

Detailed Estime for construction of Electrical timer cables and power saving arrangements with all accessories in Ward No 3

Budget Head

Ward No.3 **Estimate No.....** **For Rs. 19,98,000.00**

Sl No	Description Of Work	Qty	Rate	Unit	Amount
	KPWD (Ele) S.R.2010-11				
1 19/12	Supplying High pressure sodium vapour street light fitting die cast aluminium canopy with aluminium housing for control gear, finished stove enamel gray glassy white canopy interior with a pair of anodized aluminium reflectors with toughened flat glass, gasket lining for drip insect resistance duly wired with porcelain holder copper choke, igniter and HPF condenser including a sodium vapour lamp. II 250 Wattsa) Group 'A'	100	6150.00	Each	615000.00
2 28/1	Supplying & fixing mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete. b) Using 32mm dia G.I pipe	100	685.00	Each	68500.00
3 78/32	Supply and fixing of ..... cross arm including all Hardwares compete as per the standard technical specification. b) 2 Pin 45x45x5mm-510mm	80	123.00	Each	9840.00
4 79/37	Supplying and Fixing..... including all Hardwares etc complete as per the Standard technical Specification. a) 1.1 KV Pin insulator	120	70.00	Each	8400.00
	d) No.8 Strain Insulator	27	24.00	Each	648.00
5 79/39	Supplying and stringing of ACSR Conductor (6/2.59mm Al+1/2.59mm steel)	2000	19.80	Mtr	39600.00
6 79/36	Supplying and fixing ..... including all Hardwares etc complete as per the standard technical specification e) RCC Clamp	80	61.00	Each	4880.00
7 41/38	Fabricating supplying and mounting MS box made out... SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer pain and finally finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete b) 16 SWG	237500	0.33	sqcm	78375.00
8 32/3	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers etc., complete d) 100 Amps	25	415.00	Each	10375.00
9 32/9	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts, nuts and washers etc., Group 'A' PWD SR 2007-08	25	4200.00	Each	105000.00
10 36/12	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and Complete wiring as required. a) 5-32 Amps SP 1) Group 'A'.	25	195.00	Each	4875.00

11 34/8	Supply and fixing of 4 pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. d) 100-125 Amps	25	7450.00	Each	186250.00
12 41/37	Supplying and fixing angle iron frame work fabricated out of M.S angle iron... and M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. . (32.9a) a) 40x40x6mm	100	240.00	Rmtr	24000.00
13 68/4	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanized, steel wire/steel tap armoured cable with PVC outer sheathing 1.1KV Classl. Class 'A' PVC Cable d) 4 core 16sqmm	215	150.00	per mtr	32250.00
14 69/5	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stoneware pipe/ on wall/ on pole as required.II. On wall /Structure a) 6 sqmm to 16sqmm	215	18.00	Rmtr	3870.00
15 73/20	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes f) 16 sqmm	200	14.00	Each	2800.00
16 34/9	Supplying and fixing Moulded Case Circuit Breaker (MCCB) Over the existing wood/panel board using necessary screws, bolts, nuts and wiring thermal Magnetci Microprocessed release and Earth Fault as per IS-13947. (Icu=Ics) THREE POLE a) 100 Amps 25 kA,2) Group 'B'	25	3460.00	Each	86500.00
17 41/36	Supplying.....amps rated 3 phase with neutral bus bar using requirement capacity electrolytic aluminium strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6 mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.a) 100Amps 4x30x6mm Alluminium Strips	6	1600.00	Rmtr	9600.00
18 78/29	Supply and erection of .....mtr RCC pole including earth work etc., complete as per the standard technical specification. b) 9 Mtr 145Kg WL	6	6583.00	Each	39498.00
19 18/9	Supplying 70/125 Watts MH integral post top lantern Metal halide fitting suitable for pole mounted with fully vermin, weather proof, elegant in shpae, appearance, UV stabilized clear acrylic diffusers, camouflaged horizontal lamp, IP 54 protection. Electrical safety class 1. The fitting shall have ferromagnetic copper choke with capacitor, igniter and fully wired to operate on 230 V 50Hz AC supply with 70 /125 Watts MH Lamp..a) Group 'A'	40	5230.00	Each	209200.00
	BESCOM S.R Rates				
20 I.no-258	LT 3 phase 5 wire Aerial Bunched Cable of size 3X25+1X16+1X25+1X35 sqmm (Standard Stock materials 2010-11)	2500	81.45	P/Mtr	203625.00
	LT 1 phase 3 wire Aerial Bunched Cable of size 1X25+1X16+1X25 sqmm	2000	40.10	P/Mtr	80200.00
21 I.no-26.5	Striniging of 1.1 KV grade aerial bunched 3 core cable of XLPE insulation standard aluminium conductor standard around a weather resistant black XLPE insulated AAA messanger wire (3X 25 Sq mm + 1X 16 sqmm + 1X 25Sqmm + 1X 35 sqmm)	4500	8.96	P/Mtr	40324.50
22 9/281	Piercing connector suitable 16 Sqmm - 95 Sqmm AB cable service connections (Standard Stock materials 2010-11)	150	210.00	Nos	31500.00
23 9/286	Dead End Clamp/ Anchor clamps assembly 25 to 95 sqmm bear messanger (Standard Stock materials 2010-11)	10	140.00	Nos	1400.00
24 9/287	suspension clamp assemblly 25 to 95 sqmm bear messanger (Standard Stock materials 2010-11)	70	280.00	Nos	19600.00

25 13/255	Errection of suspension clamp 25 to 95 sqmm bear messanger (Labour charges 2010-11)	70	85.00	Nos	5950.00
26 13/256	Errection of Anchor clamp 25 to 95 sqmm bear messanger (Labour charges 2010-11)	10	85.00	Nos	850.00
27 13/261	Istallation of insulation piercing connector for main to street light Main: 16 -95 sqmm,Tap: 1.5-10 sqmm (EP 95)	150	40.00	Nos	6000.00
28 5/1.2.2	Digging of pits 1.5 mtr depth for errection of of 7.5/8 mtr Long steel/RCC/PSC/PCC supports Hard soil	40	529.00	Per Pit	21160.00
29 29/1.8.3	Concrete Works Providing cement concrete to poles and guysets with material and labour including necessary curing etc., comlpete (cost does not include excavation) c) Providing coping for pole with CC1:2:4 (as per actuals)	40	200.00	Each	8000.00
30 33/2.2	Errection of Poles : Releasing and Re-Errection of Steel supports 9.0 to 10.00 mtr long such as 22.68 kg (50 lbs) Rail, I beam of sizes 200 X 100 mm, 175X 90 mm , 125 X 100 mm, Fabricated poles, tubular poles in pits of 1.8 mtr Depth, aligning, refilling with soil For Errection =Rs 154.00 releasing of materials shall be 90 % of the cost of ereection as per bescom circular BES/GM/(T)/BC-20/F-664/05-06/CYS 174 Dt:10.01.06. Therefore Releasing and Re-Errection = Rs 154.00+ 0.9X154.00=292.60	40	292.60	Nos	11704.00
31 119/13.14	Street Light and other Works Releasing and Fixing of mercury Vapour lamp fitting /Ornamental light fitting with Control Boxes etc. For Fixing =Rs 224.00 releasing of materials shall be 90 % of the cost of ereection as per bescom circular BES/GM/(T)/BC-20/F-664/05-06/CYS 174 Dt:10.01.06. Therefore Releasing and Fixing = Rs 224.00+ 0.9X224.00=292.60	40	425.60	Set	17024.00
32	Hire Charges Components for Tractor 50 HP ,Sl no 20, Page No XXXIV, KPWD SR CIVIL 2010-11. Per Day Rs 2240.00	5	2240.00	Day	11200.00
33	Missalaneous				1.50
	TOTAL				**1998000.00**

CERTIFICATE :-

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The estimate is based on KPWD (Ele) and Bescom S.R.2010-11 Rates.

Asst. Engineer

Asst. Executive Engineer
Yelahanka Satellite Town
BBMP, Bangalore-64

ADMINISTRATIVELY SANCTIONED FOR Rs. 1998000

Rupees Nineteen Lakhs and Ninety Eight thousand only

Under P2434 Development Works for Bangalore City

EXECUTIVE ENGINEER
Yelahanaka Division

Registered as EE ( ) No 3.....9.....

Subject to conditions contained in enclosed memo EE ( ) No _____/9/....

Dt _____ Estimate A/Sanctioned No

JC/AA/499/12-13

dated 30/8/12 Rs 19,98,000/-

Joint Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92.

TECHNICALLY SANCTIONED FOR Rs. 19.98 lac

Rupees Nineteen Lakhs and Ninety eight Thousand

Under Development Works for Bangalore City P-2434

Registered as EE ( ) No 9 9

Subject to conditions contained in enclosed memo EE ( ) No /9/

Dt.....

EE/YNK/TS/65/12-13 65

Dated 30/8/2012 19.98 lac

Executive Engineer